

CIBA-GEIGY

CRANSTON

SITE

INTERIM

REMEDIAL

MEASURES



SEMS DocID

654181

# OBJECTIVES

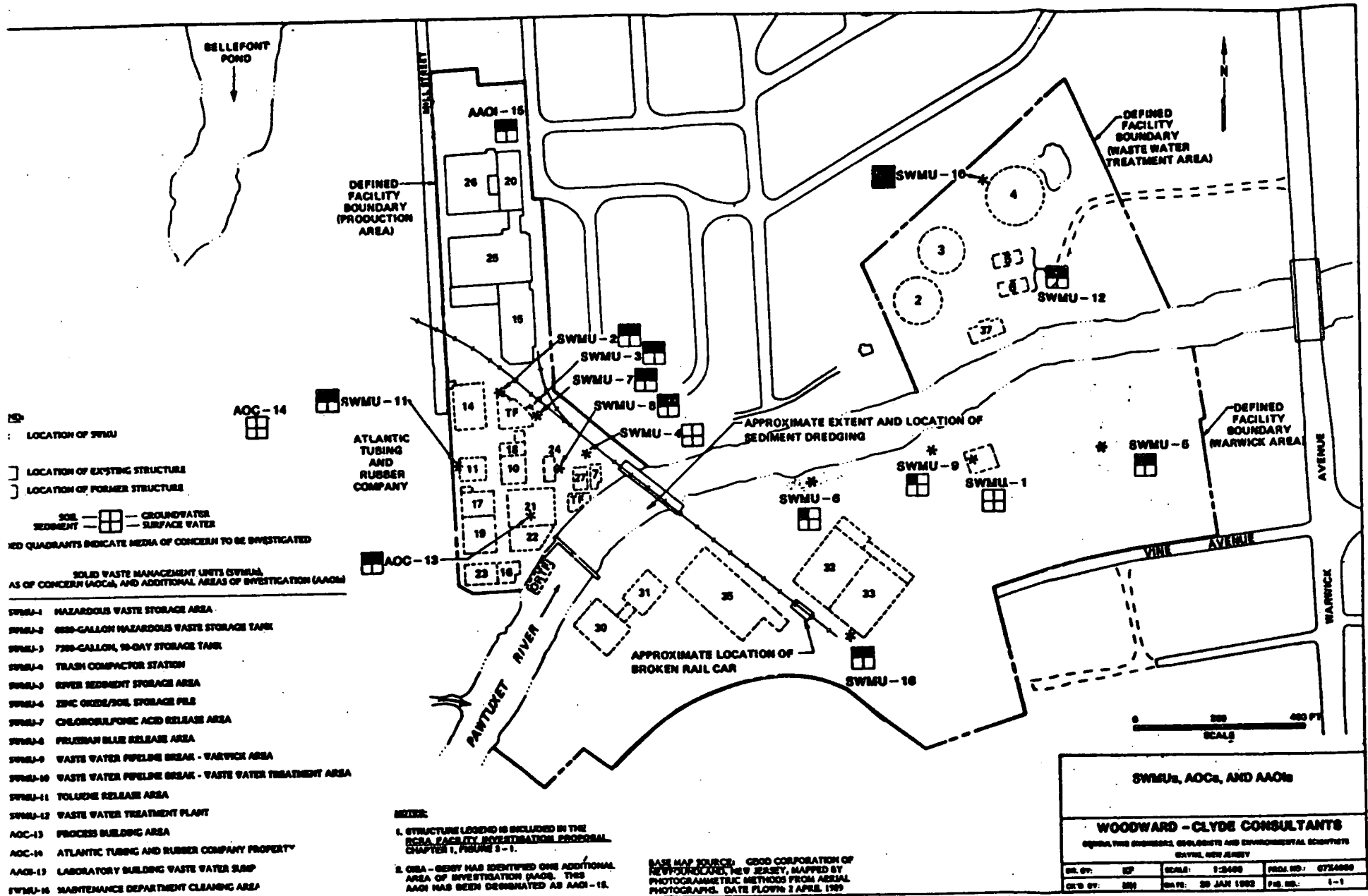
- ADDRESS SITE CONTAMINATION
- EXPEDITE SITE CLEANUP
- MINIMAL IMPACT FROM IRM'S ON COMMUNITY AND ENVIRONMENT
- ACCOMPLISHED UTILIZING A PHASED APPROACH

⇒Soils removal Production Area

⇒Soils removal Warwick Area

⇒Groundwater Stabilization/ Soil Vapor Extraction

⇒Cofferdam Sediment Removal



## PRODUCTION AREA SOILS REMOVAL

- Remove approximately 800 yards of PCB contaminated soils
- Cleanup level of 45 ppm is risk based for future restricted land use
- Excavation areas have been delineated and preliminary analysis indicates that soils are RCRA non-hazardous
- Excavation will be shallow (typically 1 ft.)
- Soils will be trucked off-site to a secure TSCA/RCRA landfill
- Area will be backfilled
- Work is scheduled to begin <sup>EOD</sup> mid May 26-31
- Permits required from City of Cranston and RIDEM
- EPA will comment on work plan

BLDG 15

VOLUME OF SOIL EXCEEDING 45 PPM TOTAL PCBs ~ 779 CUBIC YARDS (BASED ON A 1 FT DETPH)

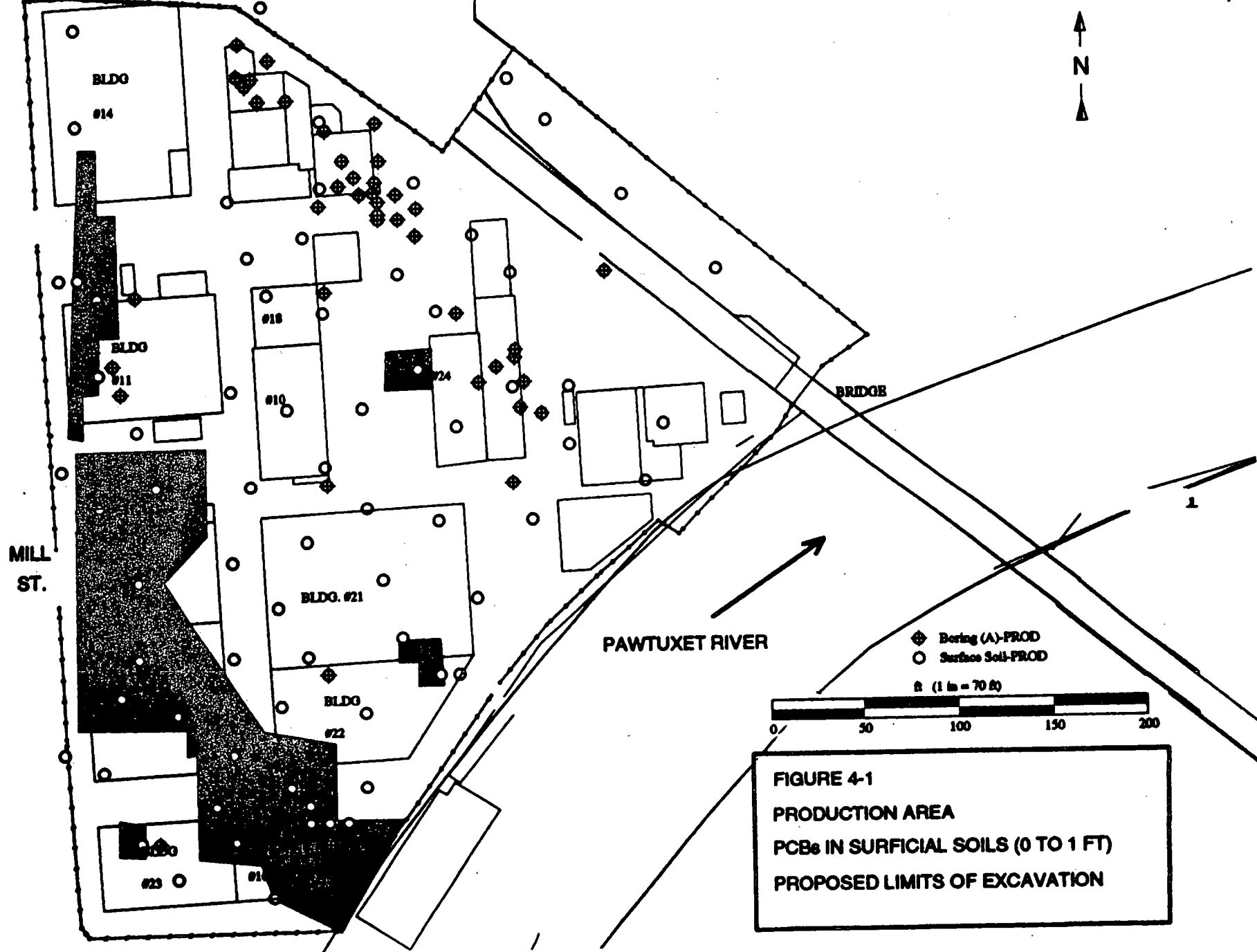


FIGURE 4-1  
PRODUCTION AREA  
PCBs IN SURFICIAL SOILS (0 TO 1 FT)  
PROPOSED LIMITS OF EXCAVATION

## WARWICK AREA SOILS REMOVAL

- Remove approximately 210 yards of PCB contaminated soils( 12 truckloads)
- Cleanup level of 1 ppm is risk based for future unrestricted land use
- Excavation areas have been delineated and preliminary analysis indicates that soils are RCRA non-hazardous
- Excavation will be shallow(typically 2 ft.)
- Soils will be trucked off-site to a secure TSCA/RCRA landfill
- Remove approximately 30 yards of zinc oxide contaminated soil(RCRA non-hazardous)
- Areas will be backfilled
- Work is scheduled to begin <sup>EARLY JUNE</sup> ~~mid May~~ immediately after production area soils removal

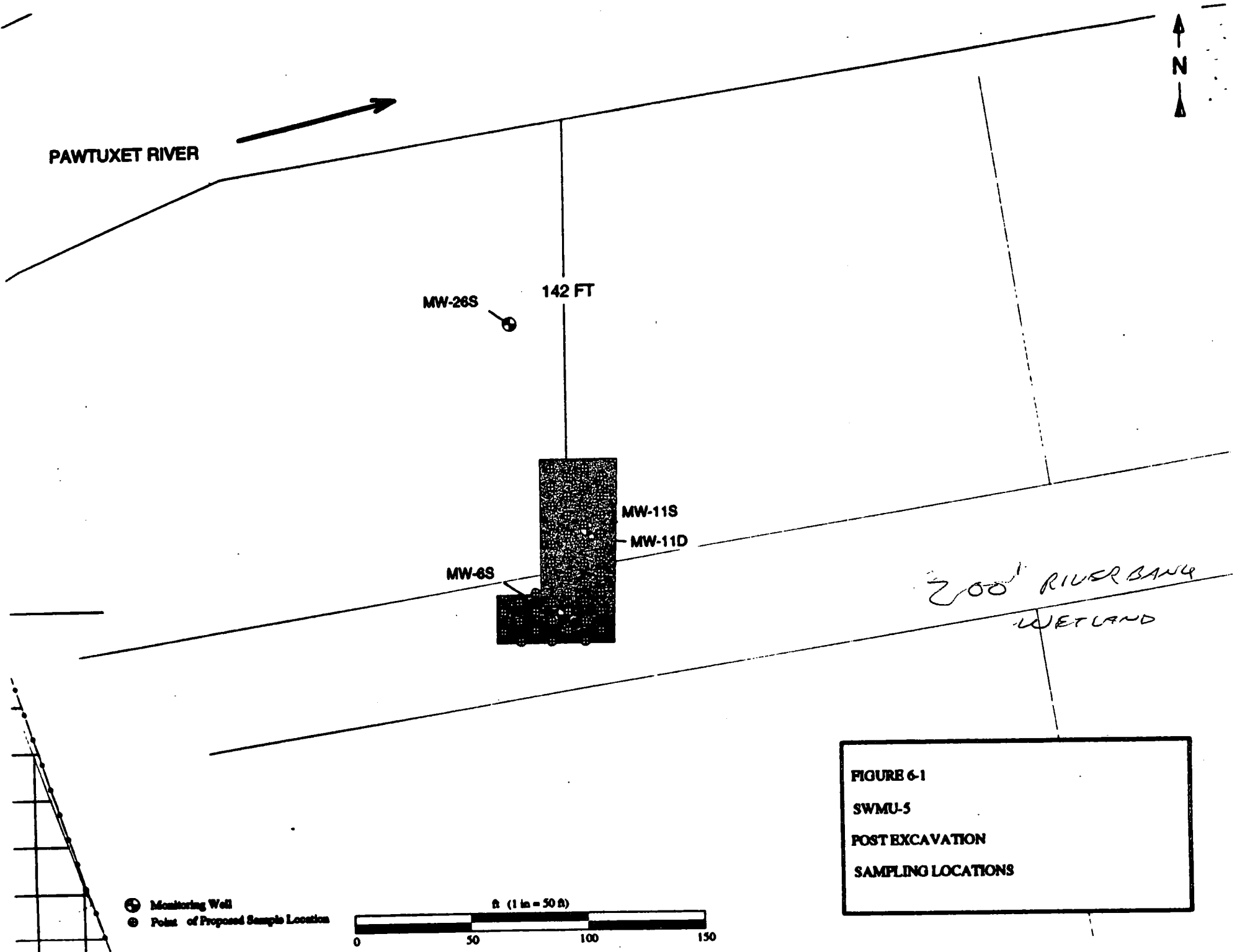


FIGURE 6-1  
SWMU-5  
POST EXCAVATION  
SAMPLING LOCATIONS

## Production Area

### Groundwater Capture/ Soil Vapor Extraction

- Site groundwater contaminated with volatile organics and discharging to Pawtuxet River
- Extraction wells will reverse hydraulic gradient to stem flow of groundwater to river
- Aqueous phase activated carbon treatment for organics prior to discharge to City of Cranston sanitary sewer
- To enhance effectiveness of the groundwater extraction and reduce a source of organics in groundwater, a soil vapor extraction system will be installed. Soil vapor will be treated by a thermal/catalytic oxidizer
- Construction is scheduled to start <sup>EARLY JUNE</sup> ~~June~~
- System to be operational by September 30, 1995



U. S. STATE PLANNING  
COORDINATE SYSTEM

# LEGEND

- ▲ PLANNING AREA
- THE OBSERVATION POINT
- JAWSP (STATIONARY STATE) WELL
- OPEN MECHANICAL WELL
- MONITORING WELL
- EXISTING FENCE
- - - - - NEW FENCE AND GATES

## NOTES

1. VE-11 FORMERLY WP-105  
PR-110 FORMERLY RC-2  
SA-110 FORMERLY WP-295  
WP-110 FORMERLY P-375  
PR-120 FORMERLY RC-5  
SA-120 FORMERLY WP-315  
WP-120 FORMERLY P-325  
WP-130 FORMERLY RC-4  
SA-130 FORMERLY WP-505  
WP-130 FORMERLY P-15
2. PROVIDE ACCESS GATES ALONG 3-5000  
FENCE FOR ALL DRAIN VALVES AND  
JAWSPS AND PRESSURE GAUGES
3. PROVIDE JACKETED POLYURETHANE "GAS  
RESISTANT" AS MANUFACTURED BY ACCESSIBLE  
APPLICABLE TO THE FOLLOWING P-15  
IN THE PLANNED AREA

